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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/568,984	08/02/2006	Shigeru Nakamura	F2108.0041	41 8872	
32172 DICKSTEIN SI	7590 12/26/200 HAPIRO LLP	EXAMINER			
1177 AVENUE OF THE AMERICAS (6TH AVENUE) NEW YORK, NY 10036-2714			TRAN, HOANG Q		
NEW YORK, P	NY 10030-2714		ART UNIT	PAPER NUMBER	
			2874		
			MAIL DATE	DELIVERY MODE	
			12/26/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	No.	Applicant(s)		
Office Action Summary		10/568,984		NAKAMURA, SHIGERU		
		Examiner		Art Unit		
		HOANG TR	AN	2874		
The MAILING DATE Period for Reply	E of this communication a	ppears on the c	over sheet with the c	orrespondence ac	ddress	
after SIX (6) MONTHS from the n If NO period for reply is specified Failure to reply within the set or e	R, FROM THE MAILING ole under the provisions of 37 CFR nailing date of this communication. above, the maximum statutory perioxtended period for reply will, by statiater than three months after the mai	DATE OF THIS 1.136(a). In no event od will apply and will e ute, cause the applica	S COMMUNICATION, however, may a reply be tin expire SIX (6) MONTHS from ation to become ABANDONE	J. nely filed the mailing date of this of (35 U.S.C. § 133).		
Status						
2a)⊠ This action is FINA 3)□ Since this application	munication(s) filed on <u>28</u> L. 2b)∏ The properties on the condition for allow the central the practice under	nis action is nor vance except fo	or formal matters, pro		e merits is	
Disposition of Claims						
4)	nim(s) is/are withdownim(s) is/are withdownim is/are wi	rawn from cons				
10)☐ The drawing(s) filed Applicant may not rec	on is/are: a) ☐ action to the sheet(s) including the corre	ccepted or b) ne drawing(s) be ection is required	held in abeyance. See if the drawing(s) is ob	e 37 CFR 1.85(a). ected to. See 37 C	, ,	
Priority under 35 U.S.C. § 1	19					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (P 2) Notice of Draftsperson's Pater 3) Information Disclosure Statem Paper No(s)/Mail Date	nt Drawing Review (PTO-948)	_	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	nte		

DETAILED ACTION

AMENDMENT

Receipt of the applicant's amendment filed 8/28/2008 is acknowledged by the examiner. Currently Claims 1-5 are pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by 6,337,762.

In terms of Claim 1 Ueno teaches a all-optical switch characterized in comprising a first input port to which a non-return-to-zero light signal is inputted (Figure 12 [12]); a second input port to which a carrier light is inputted (Figure 12 [18]); a first (Figure 12 [14]) and second (Figure 12 [15]) light paths; a division unit for dividing the light inputted to said first and second input ports into lights paths (Figure 12 [13]); a first nonlinear optical element [10] provided to said first light path, into which one of the light signals among the light signals divided by said division unit [13] and one of the carrier lights among the carrier lights divided by said division unit are inputted, for causing the refractive index to change in nonlinear fashion according to said one light signal, and shifting the phase of said one carrier light in a nonlinear fashion; a second nonlinear

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optical element [11] provided to said second light path, into which the other light signal among the light signals divided by said division unit (Figure 12 [13 or 19]) and the other carrier light among the carrier lights divided by said division unit [13 or 19] are inputted, for causing the refractive index to change in nonlinear fashion according to said other light signal, and shifting the phase of said other carrier light in a nonlinear fashion (Figure 12 [11]); An attenuation unit for attenuation said other light signal inputted to said second nonlinear optical element [42] below said one light signal inputted to said first nonlinear optical element; a delay unit for causing said other light signal to be inputted to said second nonlinear optical element after said light signal is inputted to said first nonlinear optical element [39]; a synthesizes [39] for synthesizing the light that has passed through said first and second light paths; wherein the time by which the inputting of said other signal is delay by said delay unit is shorter than the relaxation time of the nonlinear refractive index change in said first and second nonlinear optical elements [26 and 39].

As for Claim 2 Ueno teaches the device of Claim 1; characterized in that said first and second input ports are arranged so that the propagation direct of said light signal is in the opposite direction from the propagation direct of said carrier light (Figure 17 occurs at circulators 51, 52).

As for Claim 3, Ueno teaches the device of Claim 1; characterized in that said carrier light is unmodulated continuous light (Figure 17 source [31]);

As for Claim 4, Ueno teaches the device of Claim 1, characterized in that said carrier light is a clock light pulse that is synchronized with said light signal (Claim 1).

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As for Claim 5, Ueno teaches the device of Claim 1, characterized in that said delay units is formed by making the length of the light path from said division unit to said second nonlinear optical element in said second light path longer than the length of the light path from said division unit to said first nonlinear optical element in said first light path (Col 2 [20-45]).

Response to Arguments

Applicant's arguments filed 8/28/2008 have been fully considered but they are not persuasive.

In regards to applicant argument regarding the prior art of Ueno does not teach a non-return-to-zero light signal is inputted.

Although Ueno does not explicitly teach a non-return-to-zero light signal being inputted into the input port. The examiner has identified this limitation to be a functional characteristic of the light signal during its operation. In this case the input port is capable structurally of handling a RZ or NRZ signal (See MPEP 2114). It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham 2 USPQ2d 1647 (1987).

For the reasons stated above, the Examiner believes that a proper prima-facie case of obviousness has been established. Therefore, the Examiner has made this Office Action final.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOANG TRAN whose telephone number is (571)272-5049. The examiner can normally be reached on 9:00AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Uyen-Chau Le can be reached on 571-272-2397. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hoang Tran/ Examiner, Art Unit 2874 /Uyen-Chau N. Le/ Supervisory Patent Examiner, Art Unit 2874 Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination	
10/568,984	NAKAMURA, SHIGERU	
Examiner	Art Unit	
HOANG TRAN	2874	